Name: Raymond Wayne Location: 2525 East Abram Arlington, Texas

Site Name: GM Assembly Date: May 26, 1989

PHASE II FIELD TESTING PROJECT

PA QUESTIONNAIRE

INSTRUCTIONS

The purpose of this Questionnaire is to identify those data items which have the greatest impact on the potential for a site to score and that should be collected during a preliminary assessment (PA) in support of the revised Hazard Ranking System (rHRS) for Phase II of the Field Testing Project.

You are not expected to have "hard" data for all of the information identified on the questionnaire. However, within the average time constraints of a PA, you should try to obtain as much HRS/PRESCORE-related information as possible. Where site-specific "hard" information is not available, best estimates based on professional judgment are encouraged. Use of online databases is also highly recommended.

When completing the Questionnaire, keep in mind that this document will ultimately serve two distinct purposes: (1) The Questionnaire is a form on which to document data collected during the PA; and (2) The Questionnaire provides a "documentation" record on which to justify values assigned during PRESCORE. Therefore, it is important to record all major assumptions or estimates that were made during PRESCORE when there is little or no "hard" data to evaluate a revised HRS category. For example, there may be very little data available to identify which aquifer is used for drinking water in the vicinity of the site. In that case, it may be reasonable to assume all aquifers are interconnected and count all wells within four miles of the site when calculating a projected HRS score. These types of assumptions must be recorded on this Questionnaire.

In completing this Questionnaire, the list of questions on page 2 should be answered first to identify situations that could potentially have a significant effect on the PRESCORE evaluation for that site. If the response to any of the questions is "yes," information to support that data item should be gathered and recorded on this Questionnaire. Also, you are not limited to the space provided. Use additional sheets if needed and attach them to the Questionnaire.

MAJOR CONSIDERATIONS

A) DOES ANY QUALITATIVE OR QUANTITATIVE INFORMATION EXIST THAT MAY INDICATE AN OBSERVED RELEASE TO AIR, GROUND WATER, SOIL OR SURFACE WATER? No

Describe: _____

B) IF THE ANSWER TO #1 IS YES, IS THERE EVIDENCE OF DRINKING WATER SUPPLY CONTAMINATION OR ANY OTHER TARGET CONTAMINATION (i.e., foodchain, recreation areas, or sensitive environments)? Not Applicable

Describe: _____

C) ARE THERE SENSITIVE ENVIRONMENTS WITHIN A 4-MILE RADIUS OR 15 DOWNSTREAM MILES OF THE SITE? None Identified IF YES, DESCRIBE IF ANY OF THE FOLLOWING APPLY:

- Multiple sensitive environments? _____
- Federally designated sensitive environment(s)? _____
- Sensitive environment(s) downstream on a small or slow flowing surface water body?

D) IS THE SITE LOCATED IN AN AREA OF KARST TERRAIN? No

Describe: _____

E) IS THE AQUIFER UNDERLYING THE SITE A "SOLE SOURCE" AQUIFER AS DESIGNATED ACCORDING TO SECTION 1424(e) OF THE SAFE DRINKING WATER ACT? No

Describe: _____

F) DOES ANY QUALITATIVE OR QUANTITATIVE INFORMATION EXIST THAT PEOPLE LIVE OR ATTEND SCHOOL ON ONSITE CONTAMINATED PROPERTY? No

Describe: _____

SITE INFORMATION

1. SITE NAME: G M Assembly

ADDRESS: 2525 East Abram Street

CITY: Arlington COUNTY: Tarrant STATE: Texas ZIP: 76010

EPA ID: TXD008018004

LATITUDE: 32°44'56" North LONGITUDE: 97°04'19" West

2. DIRECTIONS TO SITE (From nearest public road): At intersection of Farm Market Road 360 and East Abram Street.

3. SITE OWNERSHIP HISTORY (Use additional sheets, if necessary):

A. Name of current owner: G M Assembly

Address: 2525 East Abram Street

City: Arlington County: Tarrant State: Texas Zip: 76010

Dates: From Approx. 1947 To Present Phone: (817) 649-6351

B. Name of previous owner: Not Known

Address: _____

City: _____ County: _____ State: _____ Zip: _____

Dates: From _____ To _____ Phone: _____

Source of ownership data: Reference 1, Page 1 and 3; Reference 5, Page i.

4. TYPE OF OWNERSHIP (Check all that apply):

✓ Private ____ State ____ Municipal

____ Federal ____ County ____ Other (describe): _____

6. NAME OF SITE OPERATOR: GM Assembly

ADDRESS: 2525 East Abram Street

CITY: Arlington COUNTY: Tarrant STATE: Texas ZIP: 76010

PHONE: (817) 649-6351

BACKGROUND/OPERATING HISTORY

6. DESCRIBE OPERATING HISTORY OF SITE: The General Motors Corporation (Chevrolet-Pontiac-Canada Division) operates an automobile assembly and painting facility at the approximately 250 acre site. The automobile facility has operated for approximately 40 years.
Source of information: Reference 5, Page 2; Reference 6.

7. DESCRIBE SITE AND NATURE OF SITE OPERATIONS (property size, manufacturing, waste disposal, storage, etc.): Site operations include zinc phosphating, paint spraying booths and stripping systems, acetylene generators, electroplated priming, boiler system blow down, and a deionized water production system. Hazardous wastes are either shipped off-site, or treated for disposal in a municipal sanitary sewer.
Source of information: Reference 11, Page 1; Reference 18

8. DESCRIBE ANY EMERGENCY OR REMEDIAL ACTIONS THAT HAVE OCCURRED AT THE SITE: An industrial waste water equalization lagoon and a drum storage area (both RCRA regulated units) were closed in separate remedial actions. A paint thinner spill and a fuel oil spill are currently being cleaned-up.
Source of information: Reference 5; Reference 10; Reference 11; Reference 21; Reference 24; Reference 25

9. ARE THERE RECORDS OR KNOWLEDGE OF ACCIDENTS OR SPILLS INVOLVING SITE WASTES? No

Describe: Product spills have occurred at the site, but there is no evidence that waste spills have occurred.

Source of information: Reference 23

10. DISCUSS EXISTING SAMPLING DATA AND BRIEFLY SUMMARIZE DATA QUALITY (e.g., sample objective, age/comparability, analytical methods, detection limits and QA/QC): Samples were collected to determine waste characteristics (and) the extent of soil contamination beneath the waste water surface impoundment. Analytical procedures were similiar to EPA methodology.

Source of information: Reference 11, Attachment B, Appendices A+B

WASTE CONTAINMENT/HAZARDOUS SUBSTANCE IDENTIFICATION

11. FOR EACH SOURCE AT THE SITE, SUMMARIZE ON TABLE 1 (page 12): 1) Methods of hazardous substance disposal, storage or handling; 2) size/volume/area of all features/structures that might contain hazardous waste; 3) condition/integrity of each storage disposal feature or structure; and 4) types of hazardous substances handled.

12. BRIEFLY EXPLAIN HOW WASTE QUANTITY WAS ESTIMATED (e.g., historical records or manifests, permit applications, air photo measurements, etc.):

Waste quantity estimates were based on Texas Water Commission documents and on information in reports contracted by General Motors Corporation.

Source of information: Reference 5; Reference 11; Reference 24; Reference 26; Reference 27; Reference 29.

13. DESCRIBE ANY RESTRICTIONS OR BARRIERS ON ACCESSIBILITY TO ONSITE WASTE MATERIALS:

Security fence around the facility, security guards at facility, and a separate security fence around the drum storage area.

Source of information: Reference 10

GROUND WATER CHARACTERISTICS

14. ANY POSITIVE OR CIRCUMSTANTIAL EVIDENCE OF A RELEASE TO GROUND WATER? No

Describe:

Source of information:

15. ON TABLE 2 (page 13), GIVE NAMES, DESCRIPTIONS, AND CHARACTERISTICS OF GEOLOGIC/HYDROGEOLOGIC UNITS UNDERLYING THE SITE.

16. NET PRECIPITATION: -24 inches

SURFACE WATER CHARACTERISTICS

17. ARE THERE SURFACE WATER BODIES WITHIN 2 MILES OF THE SITE? Yes

____ Ditches ____ Lakes ✓ Pond

✓ Creeks ____ Rivers ____ Other ____

18. DISCUSS THE PROBABLE SURFACE RUNOFF PATTERNS FROM THE SITE TO SURFACE WATERS:
All surface water runoff from the process areas into the City of Arlington sanitary sewer system. Non-process area runoff flows into Arlington's storm sewer system.

19. PROVIDE A SIMPLIFIED SKETCH OF SURFACE RUNOFF AND SURFACE WATER FLOW SYSTEM FOR 15 DOWNSTREAM MILES (see item #36). Not applicable because of storm sewer collection system.

20. ANY POSITIVE OR CIRCUMSTANTIAL EVIDENCE OF SURFACE WATER CONTAMINATION? No

Describe: ____

Source of information: ____

21. ESTIMATE THE SIZE OF THE UPGRADIENT DRAINAGE AREA FROM THE SITE: Approx. 250 acres

Source of information: Ref. 6

22. DETERMINE THE AVERAGE ANNUAL STREAM FLOW OF DOWNSTREAM SURFACE WATERS

Water body: Not Applicable Flow: ____ cfs

Water body: ____ Flow: ____ cfs

Water body: ____ Flow: ____ cfs

Source of information: ____

23. IS THE SITE OR PORTIONS THEREOF LOCATED IN SURFACE WATER? No

24. IS THE SITE LOCATED IN A FLOODPLAIN (indicate flood frequency)? No

25. IDENTIFY AND LOCATE (see item #36) ANY SURFACE WATER RECREATION AREA WITHIN 15 DOWNSTREAM MILES OF THE SITE: Not applicable because of municipal sewer collection system.

Source of information: Reference 18

26. TWO YEAR 24-HOUR RAINFALL: 3.85

TARGETS

27. DISCUSS GROUND WATER USAGE WITHIN FOUR MILES OF THE SITE: There is no ground water usage within 4 miles of the site.

Source of information: Reference 12; Reference 13; Reference 17

28. SUMMARIZE THE POPULATION SERVED BY GROUND WATER ON THE TABLE BELOW:

Distance (miles)	Population
>0 - 1/4	0
>1/4 - 1/2	0
>1/2 - 1	0
>1 - 2	0
>2 - 3	0
>3 - 4	0

Source of information: Reference 12; Reference 13

29. IDENTIFY AND LOCATE (see item #36) POPULATION SERVED BY SURFACE WATER INTAKES WITHIN 15 DOWNSTREAM MILES OF THE SITE: Not applicable because of municipal sewer collection system.

Source of information: Reference 18

30. DESCRIBE AND LOCATE FISHERIES WITHIN 15 DOWNSTREAM MILES OF THE SITE (i.e., provide standing crop or production and acreage, etc.): Not applicable because of municipal sewer collection system.

Source of information: Reference 18

31. IF SURFACE WATER RECREATION AREAS EXIST, CHOOSE RECREATIONAL USE CATEGORY, AND THEN DETERMINE THE POPULATION WITHIN THE ASSIGNED RADIUS FROM THE RECREATION AREA. (Use GEMS to allocate into distance rings). Not Applicable

a. Capital use and access improvements _____ (assigned radius = 125 miles)
b. Access improvements only _____ (assigned radius = 80 miles)
c. Observed use only _____ (assigned radius = 40 miles)
d. None of the above apply and access is not restricted _____ (assigned radius = 10 miles)

Distance (miles)	Population
>0 - 5	
>5 - 10	
>10 - 20	
>20 - 40	
>40 - 60	
>60 - 80	
>80 - 100	
>100 - 125	

32. DETERMINE THE DISTANCE FROM THE SITE TO THE NEAREST OF EACH OF THE FOLLOWING LAND USES.

Description	Distance (miles)
Commercial/Industrial/ Institutional	< 0.1
Single Family Residential	< 0.1
Multi-Family Residential	< 0.1
Park	0.75
Agricultural	> 4 and B

Source of information: Reference 1, Attach. A; Reference 6; Reference 10; Reference 17

33. SUMMARIZE THE POPULATION WITHIN A FOUR-MILE RADIUS OF THE SITE:

Distance (miles)	Population
onsite	0
>0 - 1/4	1,280
>1/4 - 1/2	2,544
>1/2 - 1	10,568
>1 - 2	29,672
>2 - 3	35,632
>3 - 4	52,117

Source of information: Reference 3; Reference 10

OTHER REGULATORY INVOLVEMENT

34. DISCUSS ANY PERMITS/VIOLATIONS:

County: None identified.

State: Air permits

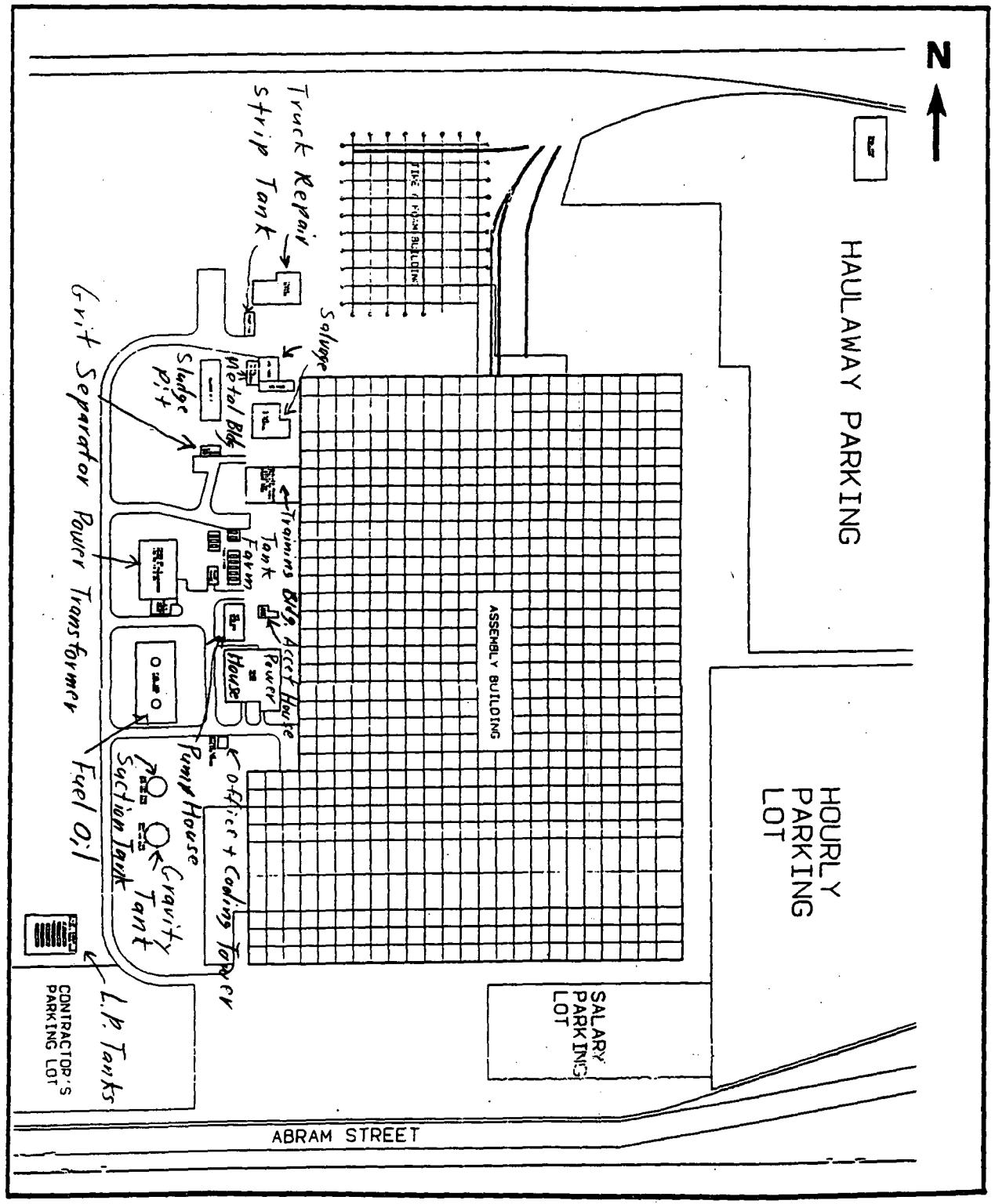
Federal: None (RCRA: Part B not submitted, Part A withdrawn 6/18/87).

Other: City of Arlington, TX; Sanitary Sewer Discharge Permit; No Violation

Source of information: Reference 15; Reference 16; Reference 18, Reference 19; Reference 23

35. **SKETCH OF SITE**

Include all pertinent features, e.g., wells, storage areas, underground storage tanks, waste areas, buildings, access roads, areas of ponded water, etc. Attach additional sheets with sketches of enlarged areas, if necessary.



36. **SURFACE WATER FEATURES**

Provide a simplified sketch of surface runoff and surface water flow system for 15 downstream miles. Include all pertinent features, e.g., intakes, recreation areas, fisheries, gauging stations, etc.

Not applicable because of municipal sewer collection system.

WASTE CONTAINMENT AND HAZARDOUS SUBSTANCE IDENTIFICATION[1]

SOURCE TYPE	SIZE (Volume/Area)	ESTIMATED WASTE QUANTITY	SPECIFIC COMPOUNDS	CONTAINMENT[2]	SOURCE OF INFORMATION
Surface Impoundment	630,000 gallons	630,000 gallons	Barium, Chloroform, Chromium, Lead, Nickle, Zinc	1954-1965: Unlined 1965-1985: Concrete lined	Ref. 11, P. 2, Attachment B
Old Drum (Container) Storage Area	Approx. 7,000 square feet	Estimated Inventory Max: 1,000 55-gal drums (50,000 gal) Average: 50-250 drums	Paint Sludge, Waste Oil & Grease, Waste Plastic, Salt Bath Sludge, Waste Paint & Thinner	Not Fully known, Concrete Slab, Curbed, Uncovered	Ref. 24, P. 2+7 of Closure Attachment; Ref. 1, P. 14
New Drum (Container) Storage Area	Not Known.	Not Known.	Not Fully known. Includes: Waste oil, Paint Sludge, Zinc Phosphate, Sodium Hydroxide, Plastics, Paint Thinner, Asbestos Insulation, Alcohols, Filter Wastes, Antifreeze, Contaminated Containers, Demineralized Resin Beads,	Not Fully Known, Fenced and diked area.	Ref. 26, P. 1; Ref. 27; Ref. 29, P. 2-4, Ref 10
Tank	12,000 gallons	Combined 62,200 gallons per year	Paint thinner with high paint concentration	Not Known	Ref. 27, P. 1; Ref. 29, P. 2+4.
Tank	12,000 gallons		Paint thinner with low paint concentration	Not Known	Ref. 27, P. 1; Ref. 29, P. 2+4.

1 Use additional sheets if necessary

2 Evaluate containment of each source from the perspective of each migration pathway (e.g., ground water pathway - nonexistent, natural or synthetic liner, corroding underground storage tank; surface water - inadequate freeboard, corroding bulk tanks; air - unstabilized slag piles, leaking drums, etc.).

WASTE CONTAINMENT AND HAZARDOUS SUBSTANCE IDENTIFICATION[1]

SOURCE TYPE	SIZE (Volume/Area)	ESTIMATED WASTE QUANTITY	SPECIFIC COMPOUNDS	CONTAINMENT[2]	SOURCE OF INFORMATION
Containers (Roll-Off Boxes)	Not Known	Not Known	Contaminated Liners and Containers	Not Known	Ref. 29, P. 3 and 4,
Tank (Clarifier)	Not Known	Not Known	Zinc Phosphate	Not Known	Ref. 11, P. 1
Pipeline (Trade Waste Sewer System)	Not Known	Not Known	Not Fully Known Includes: Zinc Phosphate Other Process Waste Water	Not Known	Ref. 27, P. 1 Ref. 5, P. 14+ 15.
Tank (Grit Separator #1)	10,000 gallons	Not Know	Not Fully Known Includes: Zinc Phosphate Other Process Waste Water	Not Fully Known Tank has open top.	Ref. 11, P. 1
Tank (Grit Separator #2)	10,000 gallons	Not Known	Not Fully Known Includes: Zinc Phosphate Other Process Waste Water	Not Fully Known Tank has open top.	Ref. 11, P. 1

1 Use additional sheets if necessary

2 Evaluate containment of each source from the perspective of each migration pathway (e.g., ground water pathway - nonexistent, natural or synthetic liner, corroding underground storage tank; surface water - inadequate freeboard, corroding bulk tanks; air - unstabilized slag piles, leaking drums, etc.).

WASTE CONTAINMENT AND HAZARDOUS SUBSTANCE IDENTIFICATION[1]

SOURCE TYPE	SIZE (Volume/Area)	ESTIMATED WASTE QUANTITY	SPECIFIC COMPOUNDS	CONTAINMENT[2]	SOURCE OF INFORMATION
Waste Water Treatment Facility (New)	Not Known	Not Known	All process waste water.	Not Known	Ref. 26, P.1.
French Drain, Sump, and Sump Pump	120 ft^3	Not Known	Toluene, Xylenes, Ethyl Benzene, Methyl Ethyl Ketone, Chloroform	Not Known	Ref. 5, P.33, Table II-E-2; Ref. 30
Air Stripping Tower	Not Known	Not Known	"	Not Known	Ref. 5, P.33, Table II-E-2; Ref. 30.
Tank and Pump	Tank: 75 gallons	Not Known	"	Not Known	Ref. 5, P.33, Table II-E-2;
Pipelines	Not Known	Not Known	"	Not Known	Ref. 5, P.33, Table II-E-2;

1 Use additional sheets if necessary

2 Evaluate containment of each source from the perspective of each migration pathway (e.g., ground water pathway - nonexistent, natural or synthetic liner, corroding underground storage tank; surface water - inadequate freeboard, corroding bulk tanks; air - unstabilized slag piles, leaking drums, etc.).

TABLE 2
HYDROGEOLOGIC INFORMATION[1]

STRATA NAME/DESCRIPTION	THICKNESS (ft.)	DEPTH TO WATER (ft.)	HYDRAULIC CONDUCTIVITY (cm/sec)	TYPE OF DISCONTINUITY[2]	SOURCE OF INFORMATION
Fill (Human deposited unconsolidated material usually comprized of clay, silt, and sand)	1 to 2	Perched water at a depth of 1 to 4 feet	Not Known	Fill deposits are usually localized.	Ref. 5, Page 5.
Tan and gray silty clay. Clay contains intermittent vertical limestone and siltstone seams extending as deep as 10 feet.	30 to 40	Approx. 30 (Base of clay)	Not Known	None Known within 4 miles of site	Ref. 5, Page 5, Fig. II-C-2 Ref. 9, Figure 17.
Eagle Ford Group. Comprized of shale, limestone, clay, and marl.	Approx. 100	Approx. 30	Not Known	None Known within 4 miles of site.	Ref. 5, Page 3; Ref. 9, Figure 17.
Woodbine Group. Comprized of fine sand and sandstone with interbedded shale, sandy shale, and laminated clay.	Approx. 300	Approx. 130 to 140	10^{-3} to 10^{-2} cm/sec	None Known within 4 miles of site.	Ref. 5, Page 3; Ref. 9, Page 47, Figure 17.

1 Use additional sheets if necessary
2 Identify the type of discontinuity within four-miles from the site (e.g., river, strata "pinches out", etc.)